

L66 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2003 ACS on STN
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TI Binders for molds and cores for casting and their manufacture
IN Wu, Zhengyong; et al.
PA Peop. Rep. China
SO Faming Zhuanli Shengqing Gongkai Shuomingshu, 5 pp.
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DT Patent
LA Chinese
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CC 56-2 (Nonferrous Metals and Alloys)
Section cross-reference(s): 51

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PI	CN 1069432	A	19930303	CN 1991-107467	19910814 <--
	CN 1025659	B	19940817		
PRAI	CN 1991-107467		19910814		

AB The binders for molds consist of petroleum pitch 40-70, solvent 30-60, vegetable oil residue \leq 50%; and the binders for cores consist of vegetable oil residue 50-90, acid or base 1-15, solvent 5-45, and optionally rosin \leq 10% for improving strength. The binders for molds are formed by: melting the petroleum pitch in a reaction chamber, adding the vegetable oil residue and solvent, stirring, heating to 100° and holding for 4 h, and cooling; and the binders for core sand are formed by: placing vegetable oil residue in a reaction chamber, adding acid or base to adjust pH to $>$ 7 and Iodine value $>$ 100, heating to 150°, adding solvent, heating to 150° and holding for 4 h, and cooling. By using the binders, cast articles have improved surface smoothness.

ST binder mold core sand casting; petroleum pitch vegetable oil binder
IT Molds (forms)

(binders for, petroleum pitch and vegetable oil residue in)

IT Pitch
(petroleum, binders containing, for molds for casting)

IT Fats and Glyceridic oils

RL: USES (Uses)
(vegetable, residues, binders containing, petroleum pitch in, for molds for casting)

L66 ANSWER 3 OF 3 WPIDS COPYRIGHT 2003 THOMSON DERWENT on STN
AN 1994-008167 [02] WPIDS

TI Foundry core sand binder, for casting - is obtd. by moulding sand binder, heating residues of vegetable oil and acid or alkali and solvent, etc. providing improved surface finish of casting NoAbstract.

DC H08 M22 P53

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